AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for transporting images from a single video display to both eyes of a user, said method comprising:

focusing an image of said display to reduce a splitting volume of space needed for splitting said image; and

splitting said image in said reduced splitting volume.

- 2. (Original) The method of claim 1 wherein a lens focuses said image of said display.
 - 3. (Original) The method of claim 2 wherein said lens is made of glass.
- 4. (Original) The method of claim 2 wherein said lens is proximate to said display.
- 5. (Currently Amended) A head mounted device for transporting images of a single video display to both eyes of a user, said device comprising:

optics for focusing reducing a size of said an image of said display to a reduced splitting volume of space; and reduced size

means for splitting said focused image, wherein said splitting means is arranged within said reduced volume.

- 6. (Original) The device of claim 5 wherein said optics is a lens.
- 7. (Original) The device of claim 5 wherein said splitting means comprises a partially reflective surface and a fully reflective surface.
- 8. (Original) The device of claim 5 wherein said splitting means comprises: a first fully reflective surface and a second fully reflective surface arranged as a symmetric V mirror.
- 9. (Currently Amended) The device of claim 5 wherein said optics are is a lens in proximity to said display.

10. (Original) The device of claim 9 wherein said lens is arranged to collimate light illuminating said display.

11. (Currently Amended) A method of channeling a displayed image, said method comprising:

projecting said displayed image along an optical path;

positioning a lens to focus the displayed image to a point on the optical path; and splitting the displayed image, proximate to said point, into a plurality of sub-images, each sub-image following one of a plurality of optical sub-paths.

- 12. (Original) The method of claim 11 wherein said point is the focal point of said lens.
- 13. (Currently Amended) The method of claim 11 further comprising:
 positioning at least one reflector along the optical path whereby the distance between said display lens and said point is reduced.
- 14. (Currently Amended) The method of claim 11 further comprising: splitting the displayed image with a plurality of reflective surfaces arranged about a display axis.
- 15. (Original) The method of claim 14 wherein a rotation of said reflective surfaces may be used to adjust for an inter pupillar distance.
- 16. (Original) The method of claim 11 further comprising:
 forming a real image on a diffuser along at least one of the plurality of optical subpaths.
- 17. (Original) The method of claim 16 wherein a movement of said diffuser may be used to adjust for an inter pupillar distance.
- 18. (Original) The method of claim 11 further comprising: redirecting the optical sub-path with a first reflector along at least one of the plurality of optical sub-paths.

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50. (Currently Amended) A head mounted, said head mounted display comprising:

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a display screen operable to produce an image along an optical path;

display optics, proximate to said display screen, wherein said optics focus said image to a point;

a splitter, located proximate to said point, for splitting the display image into a plurality of display sub-images, each sub-image traveling along one of a plurality of optical sub-paths; and

a first reflector arranged along at least one of the plurality of optical sub-paths.

- 51. (Original) The head mounted display of claim 50 further comprising: a diffuser interposed between the reflector and eye optics.
- 52. (Original) The head mounted display of claim 50 wherein said reflector is moveable.
- 53. (Original) The head mounted display of claim 50 further comprising:
 a second reflector arranged along said at least one of the plurality of optical sub-paths
 to redirect the at least one of the plurality of the optical sub-paths.
- 54. (Original) The head mounted display of claim 53 wherein the second reflector is rotatable about an axis common to the first and second reflectors and wherein said rotation can adjust for a user's interpupillary distance.
- 55. (Currently Amended) A system for channeling a displayed image, said system comprising:

a display operable to produce [[a]] <u>said</u> display<u>ed</u> image along an optical path; display optics proximate to the display, said display optics having a focal point; a broad-band source projecting radiation onto said display; and

a splitter located proximate to the focal point, said splitter operable for splitting the display image into a plurality of display sub-images, each sub-image traveling along one of a plurality of optical sub-paths.

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56. (Currently Amended) The system of claim 55 wherein the broad-band projector source is comprised of a plurality of narrow-band sources arranged to simulate a single broad-band source projector.

- 57. (Currently Amended) The system of claim 55 wherein said broad band source comprises:
 - a first and a second filter;
 - a first, a second, and a third narrow-band projectors;

wherein said first narrow-band projector is positioned to project radiation through said first filtering means and along a common source path;

wherein said second narrow-band projector is positioned to project radiation onto said first filter, and wherein said first filter is positioned to reflect said radiation from said second narrow-band projector through said second filtering means and onto said common source path; and

wherein said third narrow-band projector is positioned to project radiation onto said second filtering means, and said second filter is positioned to reflect radiation from said third projector onto said common source path.

- 58. (Currently Amended) The system of claim 57 wherein <u>each of</u> said first, second, and third narrow-band projectors project visible light of wavelengths corresponding to <u>one of</u> red, green, or blue.
- 59. (Currently Amended) A system for channeling a displayed image, said system comprising:

a sub-image creation section wherein an image of a display is focused and used to generate at least two sub-images, each directed along one of two sub-paths;

at least one eyepiece section interposed along each of said sub-paths; and wherein said sub-image creation section and said eyepiece section adjust for interpupillary distance via synchronized movements.

60. (Original) The system of claim 59 wherein said synchronized movements maintain a constant length for each sub-path.

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